

What is claimed is:

1. A TV-Anytime service system employing an enhanced model of relation with a quantitative representation, the
5 TV-Anytime service system comprising a service providing device, wherein the service providing device includes:
- a temporal relation describing means for describing a temporal relation having a quantitative representation for describing a time order of consuming components;
 - 10 a spatial relation describing means for describing a spatial relation for describing a relative location of a component in a user interface; and
 - a package metadata generating means for generating a package metadata using the temporal relation describing means and the spatial relation describing means.
- 15
2. The TV-Anytime service system as recited in claim 1, wherein the temporal relation having the quantitative representation includes at least one of absolute time
20 information or relative time information for the time order of consuming the components.
3. The TV-Anytime service system as recited in claim 1, wherein the temporal relation having the quantitative
25 representation includes relative size information according to a user interface.
4. A TV-Anytime service system employing an enhanced model of relation with a quantitative representation, the
30 TV-Anytime service system comprising a user terminal, wherein the user terminal includes:
- a package metadata obtaining means for obtaining a package metadata; and
 - a relation analyzing means for analyzing a relation
35 with a quantitative representation between components in

the obtained package metadata.

5 5. The TV-Anytime service system as recited in claim
4, wherein the relation with the quantitative
representation includes at least one of absolute time
information and relative time information for a consuming
order.

10 6. The TV-Anytime service system as recited in claim
4, wherein the relation with the quantitative
representation includes relative size information according
to a user interface.

15 7. A TV-Anytime service system employing an enhanced
quantitative representation, the TV-Anytime service system
is characterized to use a temporal relation metadata having
a quantitative representation for describing a time order
of consuming components and a spatial relation metadata for
describing a related location of a user interface.

20

8. A TV-Anytime service system employing an enhanced
quantitative representation, comprising:

25 a service providing device for generating a package
metadata describing component relations with a quantitative
representation; and

 a user terminal for consuming components according to
analysis of the component relations with the quantitative
representation in the generated package metadata.

30 9. A TV-Anytime service method employing an enhanced
model of relation with a quantitative representation, the
TV-Anytime service method comprising the steps of:

 generating a package metadata describing component
relations with a quantitative representation;

35 analyzing the component relation with the

quantitative representation by obtaining the package metadata; and

consuming components according to analysis of the component relation with the quantitative representation.

5

10. The TV-Anytime service method as recited in claim 9, wherein the quantitative representation includes:

10 a temporal relation having a quantitative representation for describing a time order of consuming components; and

a spatial relation having a quantitative representation for describing a related location of a component on a user interface.

15

11. The TV-Anytime service method as recited in claim 10, wherein the temporal relation having the quantitative representation includes at least one of absolute time information and relative time information for the time order of consuming the components.

20

12. The TV-Anytime service method as recited in claim 10, wherein the spatial relation having the quantitative representation includes relative size information according to the user interface.